

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL WITH ALL-RED RADAR DILEMMA ZONE DETECTION ON US 40 (PULASKI HWY) AT RED TOAD ROAD IN CECIL COUNTY. THE MODIFICATION INVOLVES THE RE-INSTALLATION OF INDUCTIVE LOOP DETECTION FOR PRESENCE DETECTION ALONG THE NORTH AND SOUTH LEGS OF RED TOAD ROAD. US 40 (PULASKI HWY) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

- THE INTERSECTION OPERATES IN NEMA (4) FOUR PHASE, FULL-TRAFFIC ACTUATED MODE. US 40 APPROACHES OPERATE CONCURRENTLY AND RED TOAD ROAD APPROACHES OPERATE CONCURRENTLY.
- AN EXISTING NEMA FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER IN A NEMA POLE MOUNTED CABINET SHALL BE UTILIZED AT THIS LOCATION.

PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 2 & 6	1	2	3	4	5	6	7	8	9	10	11	12
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

CONTACTS

DISTRICT (DISTRICT 2)

MR. JEFFERY WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-810-3240

MR. WM NORRIS EMBERT
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-810-3270

MR. MIKE LEWIS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-810-3250

OFFICE OF TRAFFIC AND SAFETY

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS DIVISION
410-787-7630

VACANT
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
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MR. EUGENE BAILEY
MANAGER, SIGN OPERATIONS SECTION
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MR. MICHAEL STOCKER
SIGNAL SHOP WAREHOUSE
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EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

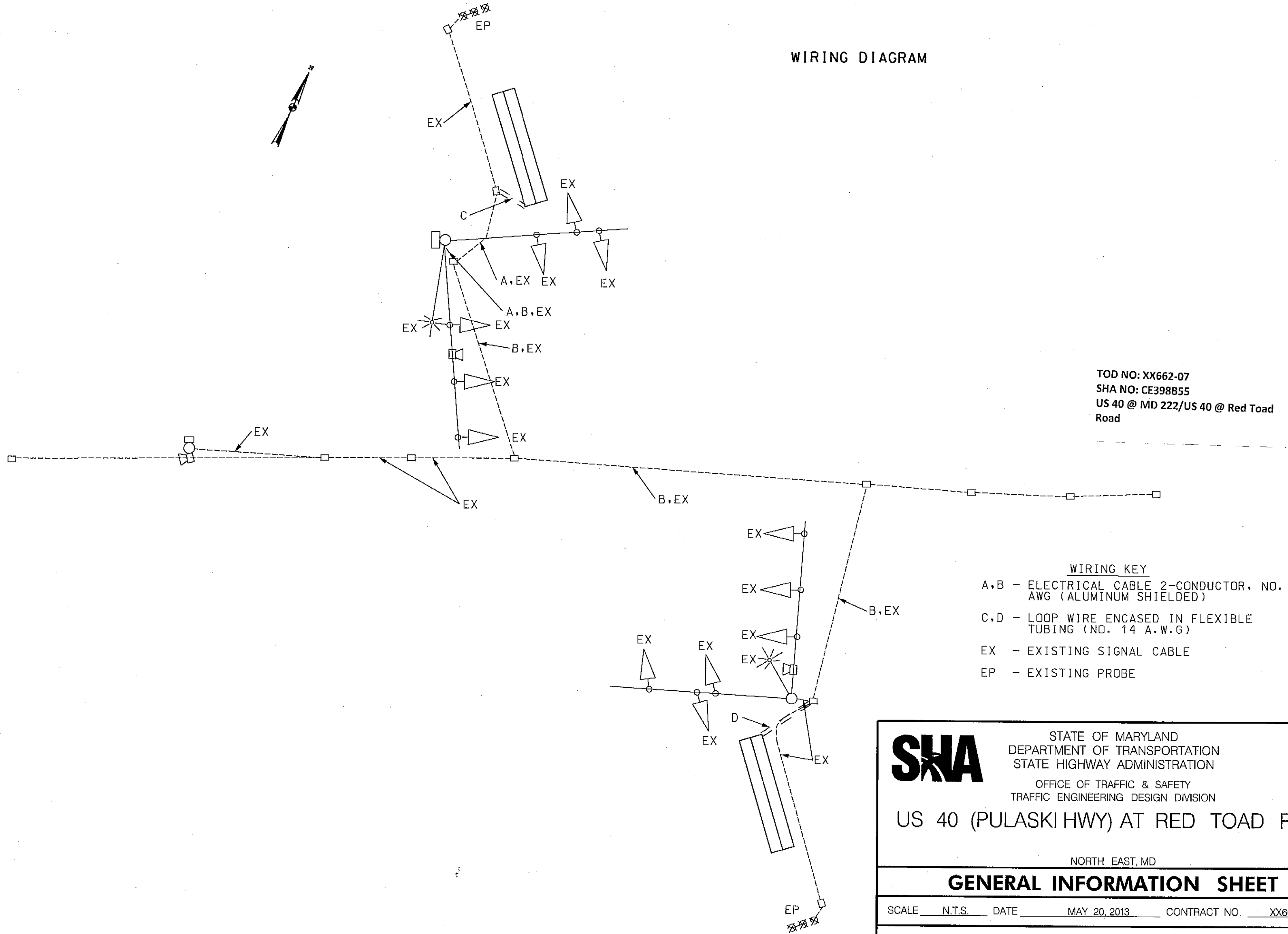
ITEM NO.	QUANTITY	DESCRIPTION
9571	26 SF	SHEET ALUMINUM MAST ARM MOUNTED SIGN 1 EA M1-5(3) '<- EAST / WEST ->' (78" x 24") 1 EA M1-5(3) '<- WEST / EAST ->' (78" x 24")

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1002	1 EA	MAINTENANCE OF TRAFFIC
8007	1 EA	REMOVE & DISPOSE OF EQUIPMENT PER ASSIGNMENT
8010	30 LF	1" DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT CONDUIT
8020	975 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14AWG)
8021	215 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8027	305 LF	FURNISH & INSTALL ELECTRICAL CABLE 2-CONDUCTOR, NO.14 AWG (ALUMINUM SHIELDED)
8032-A	26 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGNS

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

WIRING DIAGRAM



TOD NO: XX662-07
SHA NO: CE398855
US 40 @ MD 222/US 40 @ Red Toad Road

WIRING KEY
A.B - ELECTRICAL CABLE 2-CONDUCTOR, NO. 14 AWG (ALUMINUM SHIELDED)
C.D - LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
EX - EXISTING SIGNAL CABLE
EP - EXISTING PROBE



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 40 (PULASKI HWY) AT RED TOAD ROAD

NORTH EAST, MD

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE MAY 20, 2013 CONTRACT NO. XX6625185

DESIGNED BY RRP COUNTY CECIL

DRAWN BY RRP LOGMILE 07004007.35

CHECKED BY JK/KMP TMS NO. L793

F.A.P. NO. TOD NO.

TS NO. 3920D-GI DRAWING SG-02 OF 02 SHEET NO. 02 OF 02

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